



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study of Oregon's native vegetation

VOLUME 34, No. 6

40TH ANNIVERSARY YEAR!

JUNE 2001

Summer Intern Report

Conservation Studies of Five Rare Plants

by Amber Wierck

The following is the last in a series of four articles written by last year's participants in the Summer 2000 Native Plant Conservation Internship Program, jointly sponsored by the Native Plant Society of Oregon and the Oregon Department of Agriculture (ODA). What follows is an article by Amber Wierck. Amber is a senior at Oregon State University, majoring in Botany. We are grateful to Amber and the other interns for a successful field season, and thanks again to the NPSO for contributing to their botanical education and work experience. -Steven Gisler, ODA

Conservation is an important, essential process needed to maintain the communities of organisms coalescing to form environments rich in flora and fauna. Fortunately, last summer I had the opportunity to participate in this process when I was accepted into the ODA-NPSO native plant conservation internship program. This program was based out of Oregon State University, and I worked with botanists from the ODA, as well as OSU graduate students. During the internship I had the chance to contribute to many on-going projects, and traveled from the maritime environments of the Oregon

Coast to the high desert of Central Oregon. Each of the five rare plant species I encountered during the summer had unique, and often challenging, reasons for concern.

One of the rare species I worked on this summer was Wolf's evening primrose (*Oenothera wolffi*). Occurring in close proximity to the giants of the arboreal world, *Sequoia sempervirens*, *O. wolffi* is found only along the coastal bluffs and shorelines of northern California and southern Oregon. The causal agents of this plant's demise include loss of habitat, as well as hybridization with another plant species of the same genus, *O. glazioviana*. The latter species is a non-native evening primrose used extensively in horticultural seed mixes, and is sold in many nurseries and plant stores. *O. glazioviana* has escaped from cultivation and spread along the beaches where the native *O. wolffi* grows, which has led to interbreeding and the production of hybrids. With funding support from U.S. Fish and Wildlife Service, ODA is conducting a study to help determine the extent of population contamination by hybrids, and find out if any pure

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Feedback Requested on Guidelines

by Bruce Newhouse, President

The March 2001 *Bulletin* contained a section entitled 'Guidelines on Use of Native Plants for Gardening.' The article also should have stated that the guidelines were a draft, and should have requested input from members. Please consider this note as an invitation to submit comments about the draft guidelines to president@NPSO.org, if possible before the next board meeting in Corvallis (before June 8) where the guidelines and any comments will be reviewed and adopted.

Thank you!

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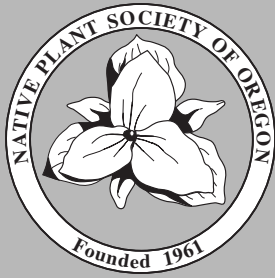
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ANNUAL MEETING

in Corvallis

June 8-10

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOregon.org>

Email Discussion List

To join send a message to majordomo@tardigrade.net, with the following in the body of the message: subscribe npsoc

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or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

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Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Editor's Note

Send in Your Articles and Pictures

by Tanya Harvey

Have you been on any great wild-flower hikes lately? Have you helped with a restoration project? Are you growing any interesting natives in your garden? Heard a fabulous speaker? Please send in your articles however short or if you're a camera buff send pictures. Don't feel like they have to be scientific. Any information related to native plants you'd like to share will be appreciated. If you've read any good articles in other publications you think NPSO members would find interesting let me know. E-mail submissions to bulletin@NPSOregon.org. If you have good photos contact me first to find out about the format.

To streamline the input process please include the NPSO chapter name in the subject for calendar items, and NPSO and the article name otherwise. If you are sending an attachment please

include the text in the body of the e-mail as a back-up.

When formatting calendar items please refer to the *Bulletin* calendar as a guideline. Include area codes for phone contacts, meeting times and places and so on. I receive as many as 80 e-mails for each issue so I really appreciate not having to reformat items and not having to ask for missing information.

The submission deadline is the 10th of each month for the following month's issue. If you have last minute items you may submit them after the deadline. If they do not arrive in time to be included in the current issue, they will be saved for the following one.

Lastly I want to thank all those who have sent in articles, pictures and comments this last year. That's what makes the NPSO *Bulletin* valuable to the entire membership.



Lomatium columbianum overlooking the Columbia Gorge at Rowena Crest near Mosier. The Columbia Desert-parsley is a very dramatic sight along the eastern end of the Gorge. Above a one-to-two foot high froth of blue-green leaves are large pink flower heads rather than the usual yellow to white of most lomatiums.

TANYA HARVEY

State

June 8-10, Friday-Sunday

Annual Meeting: in Corvallis. There is still time to register! For more information see page 76 of this issue and the March *Bulletin* for registration form and information.

June 10, Sunday

Board Meeting: Marketplace West (aka West Dining Hall) in Corvallis. 9:00 am to 3:00 pm.

Blue Mountain

June 2, Saturday

Field Trip: Mt. Emily. This will be the first of 3 field trips to the Ruckle Junction–Mt. Emily area. We will botanize areas along the road from the I-84 Mt. Emily exit to Mt. Emily, or as far as it is open. Meet at the NE corner of the Pendleton Safeway parking lot at 9:00 am, or at the Mt. Emily exit on I-84 at 9:40 am. Call Bruce Barnes, trip leader for info at 541-276-5547.

June 24, Sunday

Field Trip: Black Mountain. Jerry Baker will lead a trip along the road from Ruckle Junction to Black Mtn. for some unique botanizing areas and spectacular views. Leave from NE corner of Pendleton Safeway lot at 9:00 am, or call Jerry at 541-566-2244 to meet closer to the trip location.

June 30, Saturday

Field Trip: Ruckle Ridge. Scott Riley, Umatilla forest botanist, will lead a trip along the Ruckle Ridge road from Ruckle Junction to Mt. Emily, considered one of the best wildflower trips in Oregon. Leave from the NE corner of the Pendleton Safeway lot at 9:00 am. Call Scott for information at 541-278-3829.

Cheahmill

June 2, Saturday

Field Trip: Niagra Falls, Nestucca Watershed. Leader: Marilynn Karbonski. We will take an easy to moderate hike (2 miles round-trip) down into a gorge to view this spectacular falls. Bring a lunch and water. For start time, carpooling, and other information, call Marilynn at 503-852-7230.

June 16, Saturday

Field Trip: Deer Creek County Park. 10:00 am. Join us for a Park Appreciation Day to observe the changes that have occurred at the park. At 1:00 pm,

after a field trip of the prairie (where a prescribed burn was recently conducted) and the riparian corridor, bring a picnic lunch and socialize under the shade of the Oregon ash grove. For more information, call Dave at 503-843-4338.

Corvallis

June 8,9,10

Annual NPSO Meeting in Corvallis. Registration and information in March *Bulletin* and on page 76.

Emerald

June 2, Saturday

Field Trip: West Eugene Wetlands. Join local Botanist Lynda Boyer and learn more about restoration efforts occurring in our own backyard. There will be a brief overview of the program's goals, then a visit to some newly restored and remnant wet prairie sites (one with three rare plant species). Meet 9:00 am at northeast corner South Eugene High School parking lot. Back around 2:00 pm. If you have it, bring *Wetland Plants of Oregon & Washington* by Jennifer Guard.

June 23, Saturday

Field Trip: Beargrass Study Trip with Dr. Nan Vance of the Pacific Northwest Research Station and Dr. Peter Bernhardt, a pollination ecologist from the University of St. Louis. Come learn about Nan's study to determine sustainable levels of beargrass harvest and help Peter collect insects for his beargrass pollination study. Trip will be a full day with some walking, although plots are close to the road and on relatively flat ground. We will be walking through clearcuts, so good boots are essential. Meet at 8:00 am at northeast corner of parking lot at South Eugene High School. Back by 5:00 pm. To sign up call Jenny Lippert at Willamette National Forest, 541-465-6321.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. For a sample copy check out the NPSO website. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for many field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12.

High Desert

Unless otherwise noted all trips will depart from the north end of the main parking lot on the east side of Pilot Butte State Park off of Hwy 20 (Greenwood St.) in Bend at 8:30am sharp. Please arrive a few minutes early to form carpools. On one-day trips we will normally return to the parking lot by 5:30pm. Please: no smoking, no picking or collecting of plants, and no pets. Remember, you participate at your own risk.

June 9, Saturday

Field Trip: The Island. The Island Research Natural Area is a remnant example of our native grasslands. Much of the local high desert probably looked like this before grazing, farming, and urbanization took over. Unfortunately, even in this barely-grazed area, exotic weeds are a problem. NPSO will assist the BLM in removing medushead from several small infested areas. This is a unique opportunity to visit the area since the Island Research Natural Area is closed to casual hiking. We may see rattlesnakes so long pants and boots are encouraged. Call trip leader Stu Garrett for details: 541-389-6981 eves.

June 16, Saturday

Field Trip: Mill Creek Wilderness/Hash Rock Fire. The Hash Rock fire in July of 2000 burned over 1000 acres, part of it in the Mill Creek Wilderness. We will hike into the wilderness to see fire effects and learn how the Forest Service is approaching the restoration of this special area. Due to wilderness travel, hiker numbers are limited to 12, so call trip leader Stu Garrett early at 541-389-6981 eves.

June 23, Saturday

Field Trip: Crescent Mountain (with Sierra Club). Moderate to difficult climb up Crescent Mountain in the Cascades. Great views and wildflowers. Meet at 9:30am at the JC Penney Parking Lot, Mountain View Mall, Hwy 20 side. Call Sierra trip leaders for more info: Hanne Madsen 541-317-9134 or Alison Hamway 541-382-2035.

June 30, Saturday

Field Trip: Hummingbird Meadows. Exult in the beauty of mountain wildflowers. This easy-to-moderate 5-mile hike will explore some verdant meadows above 5,000 ft in the Rogue-Umpqua Divide Wilderness which is northwest of Crater Lake National Park. Be ready for any weather! Due to wilderness travel, hiker numbers are limited to 12, so call Reid early. Pre-registration is required! Note 8:00 am departure due to the 2.5 hours drive time. Return to Bend by 6:00 pm. Call trip leader Reid Schuller for sign-up: days 541-317-0199.

July 14, Saturday

Field Trip: Newberry Geothermal: Act 2, Scene 1. Over the last twenty years there has been much interest in developing geothermal power at Newberry Volcano south of Bend. Interest in the 1980s led to the Newberry National Volcanic Monument. A new out-of-state developer has allied with a new out-of-state utility to try again to exploit the resource. Join federal agency experts and NPSO as we learn about the risks and benefits of this most recent attempt to harness and profit from Newberry's resources. Call leader Stu Garrett for details: 541-389-6981 eves.

August 11, Saturday

Field Trip: Broken Top Volcano. This is our annual trek to view the spectacular glaciated scenery and alpine wildflowers in the High Cascades west of Bend. This is a six mile round trip, moderate to strenuous hike with a 1,700 foot elevation gain. We will do mostly off-trail hiking through the Three Sisters Wilderness, so hiker numbers are limited to 12. Meet at Pilot Butte Lot at 8:30am. If we can't go to Broken Top we will hike Black Crater. Pre-registration is required! Call trip leader Stu Garrett for sign-up: eves 541-389-6981, the sooner the better!!

Klamath Basin

For information on the Klamath Basin Chapter, call David Lebo at 541-883-8393.

Mid-Columbia

June 6, Wednesday

Meeting: Deschutes Basin Land Trust. 7:30 pm at the Columbia Gorge Discovery Center in The Dalles (Exit 82 off I-84 and follow signs). The Deschutes Basin Land Trust works out of Bend to protect significant habitats in the Central Oregon. Brad Chalfant, Executive director of the land trust, will show us slides of some of the lands the trust is working to protect, and discuss strategies that can be used by a land trust and by conservation-minded owners to protect land.

July 4, Wednesday

NO Meeting. Enjoy your Fourth of July!

North Coast

Unless otherwise stated, the group will meet at 10:00am at the front parking lot of the PUD building at the south end of Tillamook at 11th and Pacific. Guests are welcome, pets are not. For further information and if you intend to go, call or e-mail John Gerke at 503-842-5366 or johnroyal@juno.com or phone Nancy Eide (503-861-1837) or Kathleen Sayce (360-665-5292).

June 4, Monday

Meeting: Planning. 7:00 pm at PUD building in Tillamook at 11th and Pacific. Park in the lot at the east end of the building and enter through the NE door. We'll plan future field trips and activities. If you would like to show some of your slides, let John Gerke know so that he can bring a projector.

June 16, Saturday

Field Trip: Oswald West State Park, Cape Falcon trail. On Highway 101 between Manzanita and Arch Cape, just north of Neah-Kah-Nie Mt. Meet on east side of highway at the main day use parking lot, the one with a restroom. It will be an easy 4-mile (round trip) hike through coastal forest. Phone Nancy or Kathleen.

Portland

June 1, Friday

Field Trip: Salmon River. USFS Botanist Carol Horvath representing the Zig Zag Ranger District is leading one to two hour hikes on Friday mornings May 4th thru June 1st, to the Salmon River. It's an active time there for wildflowers. For more information call Greg Stone at 503-233-4761.

June 3, Sunday

Field Trip: North Ridge of Augspurger Mountain. We'll join trip leader Russ Jolley to explore the back side of Augspurger Mountain. This hike will be 3 miles round trip with an 1100' elevation gain. We'll be looking for *Hydrophyllum fendleri* along with many others. Leave 8:30 am from Gateway/NE 99th Ave. Park and Ride, southeast corner of parking lot. For more info call Greg Stone at 503-233-4761 or Russ at 503-286-2350.

June 12, Tuesday

Meeting: Educating Youth about the Environment. Richard Myers from Cleveland High School will discuss his experiences educating youth about the

environment. He will also present a video his students produced on invasion of alien species. Also presenting will be representatives from the City of Portland and Wolftree. 7:00 pm, Fireside Room (#355) of the First United Methodist Church located at 1838 SW Jefferson St., in Portland. For more information contact Skip Haak, 503-460-3198.

June 16, Saturday

Field Trip: Cape Falcon, Oswald West State Park. Nancy Eid and Kathleen Sayce from the N. Coast chapter are leading this 4-mile easy hike in the beautiful old growth coastal forests. We'll carpool from our meeting place for all destinations west; the old Cedar Hills shopping center parking lot right near the only coffee shop that's open. We'll leave there at 8:30 am and meet at the trailhead at 10:00 am. For directions and other info. call Greg Stone at 503-233-4761 or look in N. Coast Chapter listings.

June 23, Saturday

Field Trip: Coffin Mountain. Loren Russell from the Corvallis Chapter, who gave us that wonderful slide show

on alpine flora, is taking us up Coffin Mtn. to see *Iris chrysophylla*, *Helianthus cusickii* and *Convolvulus nyctagineus*, along with a great view of Mt. Jefferson when we reach the top. The hike is 3 miles R/T with 800 ft. elev. gain. Side trip to Bruno Meadows for great high meadow habitat if time allows. 2 hours driving time each way. Leave Cedar Hills shopping center parking lot at 8:00 am. For directions and more info. call Greg Stone at 503-233-4761.

July 22, Sunday

Field Trip: Alpine Meadows of Mt. Hood. Join Barbara Robinson and Greg Stone as they explore Mt. Hood. More details in July *Bulletin*. If interested please call Greg at 503-233-4761.

Siskiyou

All trip participants will be required to sign a disclaimer. None of the trips are all access (on trails suitable for wheelchairs). For more information, call the trip leader or Don Heinze at 541-955-7247.

June 2, Saturday

Field Trip: Grizzly Peak. 9:00 am, Western edge of Shop N Kart parking lot, Highway 66 and Tolman Creek Road, Ashland. Leader: Jim Duncan 541-482-7629. See the early spring flowers at this elevation, including Klamath fawn lily, yellow bells, small Lewisias, and much more. Easy-to-moderate 5-mile hike with a 600 foot elevation gain (5,300'-5,900'). Call Jim for required reservations.

June 9, Saturday

Field Trip: Wildflowers of Woodcock Fen. 9:00 am Illinois Valley Visitor's Center, 201 Caves Highway, Cave Junction. Leader: Mike Anderson. This hike could be titled "The Rare Plant Express," because the 2000 Woodcock hike turned up 11 sensitive species from the Oregon Natural Heritage Program list. All this in an extremely small area that includes Woodcock Fen and the adjoining Jeffrey Pine Savanna. The plant list includes the rare purple form of large-flowered rush lily which is arguably a separate species. Easy two-mile hike.



TANYA HARVEY

Viola lobata growing in open woodland by Eight Dollar Mountain in the Siskiyou. The bright yellow flowers are very attractive, but it is the unusual leaves that distinguish this violet.

June 9, Saturday

Field Trip: Whetstone Butte from Onion Camp to Eagle Gap. 10:00 am, Illinois Valley Visitor's Center, 201 Caves Highway, Cave Junction. Leaders: Karen McCullough 541-592-4032 and Cecile Shohet 541-592-4052. Old Jeffrey pines and Brewer's spruce on a serpentine ridge. Rock outcrops. Moderate 4-miles round-trip hike. Recommended prior reading: Begnoche, Don; *Siskiyou Sundays*; pages 111 -116.

June 23, Saturday

Field Trip: Babyfoot Lake. 10:00 am, Illinois Valley Visitor's Center, 201 Caves Highway, Cave Junction. Leader: Janet Yoder, 541-596 2691. See this Forest Service Botanical Area which is highlighted by a majestic stand of Port Orford Cedar. This is one of the few places where one can see the paleoendemic Brewer's spruce. Moderate 3-mile hike.

June 30, Saturday

Field Trip: Black Butte south of O'Brien. 7:30 am, south Safeway parking near Abby's Pizza in Grants Pass—take exit 55 of Interstate 5, go west on Grants Pass Parkway and cross the Rouge River. Keep going for 4 stoplights and turn left (south) on Williams Hwy (Hwy 238). Proceed past one stoplight. Safeway will be on the right. 8:30 am at the O'Brien Store in O'Brien (southwest of Cave Junction. Leaders: Maria Ulloa 541-471-6528 and Lee Webb 541-471-6536, both at the Siskiyou National Forest. A high elevation hike that will gain 1000 feet. Spectacular views—see Mt. Shasta to the east and the Pacific Ocean to the west. Be ready to play in the snow. moderate-to-difficult 5-mile hike.

Umpqua Valley

June 14, Thursday

Meeting: Annual Summer Potluck Dinner will be held at Kanipe County Park located on County Road 50 just north of Oakland. Dinner will begin at 6:00pm. Call Richard Sommer at 541-673-3709 for more information.

June 23, Saturday

Field Trip: *Calochortus coxii* at Bilger Ridge. Meet in the BLM parking lot, 777 NW Garden Valley Blvd, Roseburg at 8:00 am. Call Russ Holmes at 541-672-4635 for more information.

Willamette Valley

June 22 & 23, Friday & Saturday

Field Trip: Bioblitz at Champoe St. Park. Leader, Dale Shenk. For more information and to find out about meeting time and place call Wilbur Bluhm at 503-393-2934.

June 23, Saturday

Field Trip: Butte Basin, east of Scotts Mills. Headwaters of Butte Creek. 1/4 mile walk to site. Leader, Wilbur Bluhm. For more information and to find out about meeting time and place call Wilbur at 503-393-2934.

William Cusick

June 2, Saturday

Field Trip: GROWISER. Andy Huber will give a tour of the GROWISER Foundation at Pumpkin Ridge where he has been growing native grasses and forbs for seed production. There is a tremendous variety of native species growing naturally that should be at their peak. Between the colorful flowers and scenic vistas of the Grande Ronde Valley and Andy's down to earth information, it should be a great time. The tour will start at 1:00 pm. For directions call Andy at 541-962-1512.

Friends of the Oregon Flora Project

The Oregon Flora Project is most grateful for the continued sponsorship of the NPSO. The Board's designation of two \$3000 grants in 2001 is a powerful display of generosity and support for the Flora Project. Thank you, NPSO, for being an integral part of this endeavor! The North American Rock Garden Society Endowment committee has awarded the Friends a \$3000 grant to develop a prototype of the Photo Gallery of the plants of Oregon. The Photo Gallery will be a collection of images of each plant found in the state, and will be a part of the online Flora. Our grant from NARGS will support work to begin the Photo Gallery using native rock garden plants, and to develop a protocol for the production of the complete Photo Gallery. As we launch the work on the Photo Gallery, we will keep people informed on ways to participate in this exciting aspect of the Flora Project. Many thanks to the NARGS for their support!



Volunteers and financial contributors to the Oregon Flora Project are always appreciated.

Please make checks payable to:

Native Plant Society of Oregon
(attention: Friends of the Oregon Flora Project)

and mail to:

Friends of the Oregon Flora Project
P. O. Box 402
Corvallis, OR 97339-0402

Inquiries can be e-mailed to Linda Hardison at hardisol@bcc.orst.edu, or mailed to the above address.

Leach Botanical Garden Events

6704 SE 122nd Ave., Portland

All About Penstemons June 2, Saturday, 9-11 am

An introduction to this popular and fascinating group of plants plus a walk through the Garden's penstemon collection. A variety of hard-to-find penstemons will be for sale. Instructor: Ginny Maffit, penstemon enthusiast and grower. Fee: \$15/\$13.50 members, limit: 20.

Propagating Plants June 9, Saturday, 9-11:30 am

Learn the basics of propagating plants from seed, division and cuttings. Instructor: Scotty Fairchild, Garden Steward, Leach Botanical Garden. Fee: \$20/\$18 members, limit: 15.

Wildflower Walk June 23, Saturday, 8:00 am to Evening

Spend the day exploring the Kreps Lane and Willard Springs areas at the foot of Mt. Adams with Mike Fahey, LBG volunteer and seed collector for the LBG Seed Exchange Program. Fee: \$25/\$22.50 members, limit: 10.

Butterfly Hike

Grasshopper Meadows June 23, Saturday

The Eugene-Springfield Chapter of the North American Butterfly Association will be sponsoring a field trip to this sub-alpine area in the Willamette National Forest. Meet at the Campbell Senior Center parking lot (155 High Street, Eugene) at 9:00 am. Co-leaders: Neil Björklund and Bruce Newhouse. Space is limited to 20 people. Pre-registration required. Call Neil Björklund at 541-344-2053, or e-mail him at neilb@pond.net, to pre-register.

Berry Botanic Garden Events

Portland's Berry Botanic Garden has a number of native plant oriented events. To register or to get more information on these and other events at the garden call 503-636-4112 or check out their website at <http://www.berrybot.org>.

Multnomah Bog Hike June 14, Thursday

Multnomah Bog is the headwater of Multnomah Creek, which empties into the Columbia River at Multnomah Falls. The bog is just north of the summit of Larch Mountain, and is visible from the Sherrard Point lookout. Be prepared for a botanical adventure, unsure footing, and a little bit of a scramble. Meeting location will be mailed to participants. Instructors: Carolyn Devine & Kris Freitag, 8:30 am to mid afternoon, \$8/\$5 members, limit: 15.

Partners for Plants, 2001 June 18-22

Play an important role in the conservation of rare Pacific Northwest plants by joining this cooperative effort (now in its 10th year!) between The Berry Botanic Garden and Gifford Pinchot National Forest. Participants will receive an informational packet that includes a packing list and driving directions to the ranch, but here's a glimpse of what the week will be like. A lovely early morning drive through the gorge and Washington countryside brings you to the picturesque Flying L Ranch B&B where we meet. Settle in and "learn the ropes", then ride a Forest Service vehicle into the forest where we collect data on rare plants. A picnic lunch that you packed from home (you'll pack the rest of the week's lunches from our kitchen) is followed by more data gathering. Then back to the inn where we watch the sun set on Mt. Adams, share evening cooking duties, learn about projects in the Gifford Pinchot, and just have fun! Mornings are a real treat—delicious breakfasts are prepared by the inn. Enjoy the company of others interested in botany while reliving summer camp as an adult! Instructor: Andrea Raven, \$75, limit: 15.

Grassy Knoll Hike June 28, Thursday

Past director, Linda McMahan, calls the 2,070 acre Grassy Knoll Natural Area "a little paradise on Earth." We'll see a stunning diversity of plants due to a unique convergence of bioregions on this gentle hike. The terrain ranges from a grassy meadow to rocky outcrops to Hemlock forest. The elevation rises gradually about 1200', and the trail is 4.4 miles round trip. Plan for a day hike. Meeting location will be mailed to participants. Instructors: Carolyn Devine & Kris Freitag, 8:00 am to afternoon, \$8/\$5 members, limit: 15.

Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene

June 9 & 23, Saturday, 10am-Noon

Introductory Ecology of Mt. Pisgah Arboretum walks led by Harold Schyberg, MPA nature guide. All ages welcome. Meet at the Arboretum visitor center. Suggested donation: \$3.

June 16, Saturday, 10am-Noon

Water Resources walk led by Tom Bettman, MPA nature guide. All ages welcome. Meet at the Arboretum visitor center. Suggested donation: \$3.

June 23, Saturday, 7:30-10:30 pm

Bats! Learn about these wonderful flying mammals with Stu Perlmeier. This workshop includes a slide show and lecture, and netting and identification of live bats! Fee: \$15 for adults, \$5 for kids. Pre-registration required for limited space. Call 541-747-1504.

NPSO Annual Meeting June 8, 9, 10 in Corvallis

If you haven't registered for the NPSO Annual meeting yet, it is not too late to add a few of you undecided plant lovers. Please contact Dan Luoma 541-752-8860 <luomad@fsl.orst.edu> or Esther McEvoy 541-754-0893 <grubere@bcc.orst.edu> to register late.

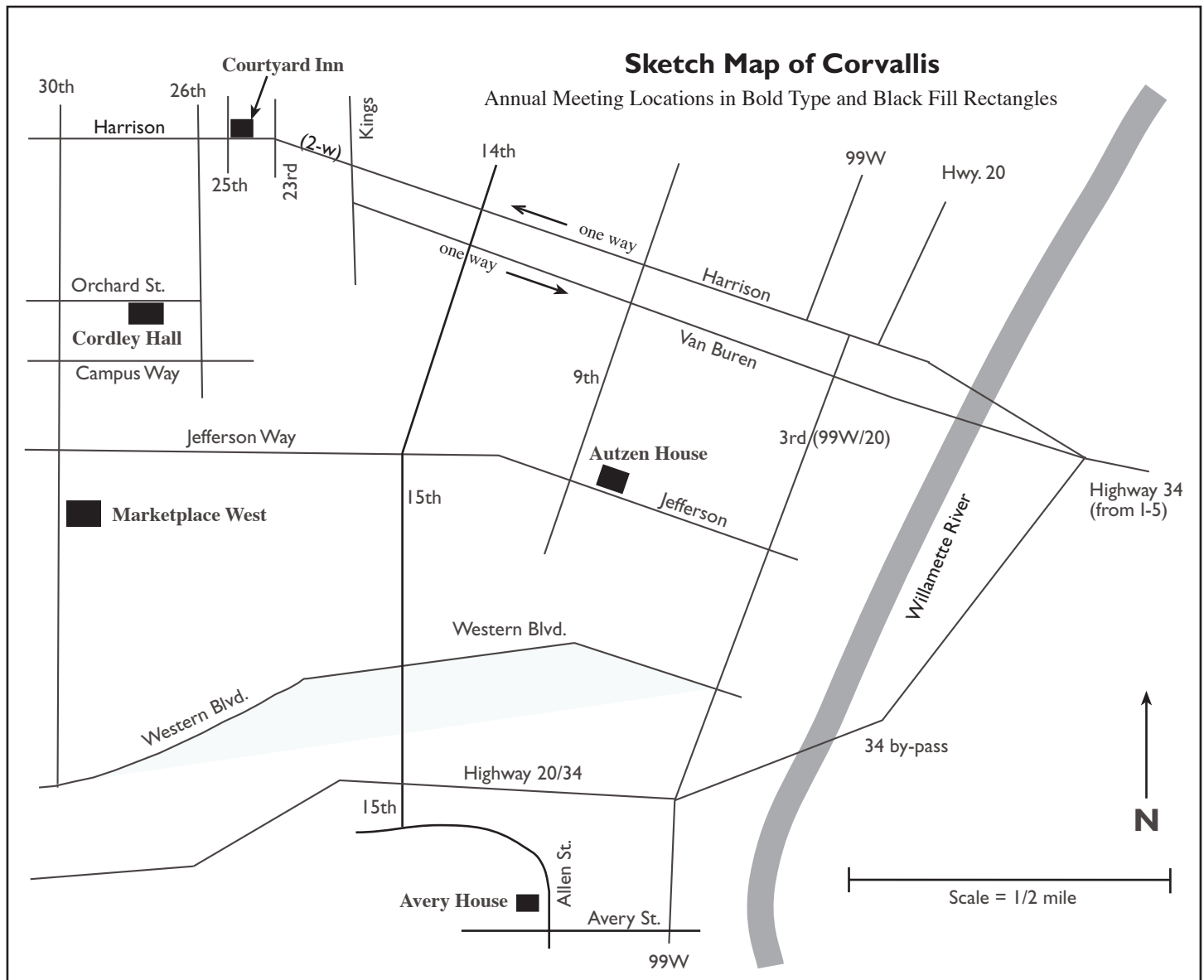
Friday afternoon activities include a local field trip and/or afternoon tea with Linda Hardison at the OSU herbarium to learn more about the Oregon Flora Project. Friday evening social at the Autzen House will include slide shows by Loren Russell and videos by Jerry Igo. Refreshments included in evening events.

Saturday daytime there will be field trips to different areas of botanical interest departing from the Courtyard Inn around 9:00 am. The evening banquet will begin with a no-host bar social at the Courtyard Inn at 5:30 pm. Special banquet speaker Dr. Boone Kaufmann will be talking on "Ecological approaches to restoration of native ecosystems (Oregon)." Three long-time NPSOers will receive Fellows Awards.

Sunday morning the State Board Meeting will be in Marketplace West (West Dining Hall) at OSU from 9:00 am to 3:00 pm. Lunch will be available for purchase in the dining

hall. Parking is available to the west of 30th street in the School of Forestry parking area. This is marked with a "P" on the map below. Enter off the southbound side of 30th. A full OSU campus map can be found at <http://oregonstate.edu/visitors/tour/campusmap.htm>. Also, there will be field trips available for those interested.

Please check the March *Bulletin* for the registration packet or contact Dan Luoma or Esther McEvoy for more information. Check below for the map locations of the events in Corvallis. See you all in Corvallis in June!



Rhoda Love

by Charlene Simpson

During the three years that Rhoda Love has been editor of the *Oregon Flora Newsletter*, she has interviewed a number of people for biographical information. Now, we have turned the tables. This time Rhoda herself is the subject of a biography.

Born and educated in Seattle, Rhoda is a northwesterner who discovered her botanical calling in 1950 during a University of Washington freshman botany class with C. L.

Hitchcock. "I had a superb education at Washington and will always be grateful to the many fine professors who taught me there," she says.

After graduation and a stint as a junior high math and science teacher, Rhoda returned to UW to obtain an MS in botany, writing a thesis under Weston Blaser on bud tip morphology of *Aucuba japonica*. She continued teaching biology in Seattle until she and her husband Glen moved briefly to California, where they both taught at San Diego State College. They came to Oregon in 1965 where Glen joined the University of Oregon English Department and Rhoda began a 30-year career of part-time botany teaching at Lane Community College. Inspired by Rhoda's enthusiasm many of her former LCC students have gone on to botany careers.

When children Stan and Jenny were of school age, Rhoda returned to graduate school receiving her Ph.D. from the University of Oregon in 1980 under plant ecologist Stan Cook. Her thesis was on insect feeding on native and introduced hawthorns in the Willamette Valley. "As the child of relatively unschooled parents, I consider my education to be the most important factor in my life," she tells us.

Rhoda has been an active Native Plant Society of Oregon member since the '70s and has served twice as State President, as well as Vice President and Secretary. She takes credit for starting NPSO on the road which led to passage of the Oregon Endangered Species Act of 1987. She also believes her let-

NPSO Items for Sale

The "Atlas of Oregon Carex" was NPSO's first Occasional Paper. The Atlas has 128 location maps, one for each Carex taxon in the state of Oregon. Also included are a synonymy, fun facts about sedges, a history of the project, and Oregon geography maps. **Price: \$5.**

"Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany" is NPSO's second and most recent Occasional Paper, published in 2001. This fascinating, peer-reviewed, 64-page biography includes 56 historic and modern images. It is carefully and exhaustively researched with 133 notes plus chronology, lists of publications and plants named for Henderson. **Price: \$10.**

To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to: **Occasional Papers, Native Plant Society of Oregon, PO Box 902, Eugene, OR 97440-0902.**

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2001). Available from Jan Dobak, 2584 NW Savier St., Portland OR 97210. **\$3 postpaid.**

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Drive, Bend, OR 97701, 541-389-6981. Individuals may order posters at **\$12 each**, plus \$3 per order for shipping. Posters are mailed in tubes.

ters to Senators resulted in the Federal listing of *Lomatium bradshawii*. She served as President of Friends of Mt. Pisgah Arboretum, edited their newsletter and wrote their grant proposals. Rhoda was appointed by three governors to three terms on the Oregon Natural Heritage Advisory Council, and serves as an advisor to the State Department of Agriculture Rare Plant Program.

In addition to the Arboretum newsletter and the *Oregon Flora Newsletter*, Rhoda serves as an assistant editor of *Kalmiopsis*, Journal of the Native Plant Society of Oregon, and was a technical editor of *Conservation and Management of Native Plants and Fungi*, Proceedings from Conference of the Native Plant Society of Oregon. She is currently collaborating with her friend and former teacher, Dr. Arthur R Kruckeberg, Botany Professor emeritus, UW, writing and compiling biographical essays on Northwest plant collectors. Her biography of Louis F. Henderson became NPSO's Occasional Paper Number Two.

When Rhoda learned that a new

Flora of Oregon was to be launched at OSU she couldn't resist becoming part of the project. She says when she began to volunteer she was at once made to feel welcome by OSU staff persons, Aaron Liston, Ken Chambers, Scott Sundberg and other members of the Oregon Flora team. She was invited to become a Checklist Project Leader and editor of the newsletter. In addition Rhoda has been writing the treatment of the pome-fruited Rosaceae for the Checklist. Drawing on her previous knowledge of the hawthorns (*Crataegus*) she has tackled *Amelanchier*, *Sorbus*, *Pyrus* and *Malus*. She confesses to writing relatively conservative treatments of these genera.

"My work on the Flora is now one of the most exciting and satisfying things in my life," she says. Another, she hastens to add, is watching her children mature and prosper. She enjoys visiting her two grandsons in Houston as well as their astronaut father and neurobiologist mother. This year she plans a visit to Germany to spend time with her daughter, a Fulbright recipient.

Five Rare Plants

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populations of *O. wolfii* still remain. I helped with this project by visiting numerous *O. wolfii* populations and measuring a host of different plant morphological characteristics that are useful in distinguishing pure *O. wolfii* from hybrids. So far the results of this study indicate that there are only a few pure populations of Wolf's evening primrose left in existence, all occurring in Oregon.

Another interesting species I encountered last summer was *Perideridia erythrorhiza*, the red-root yampah, which resides in southern Oregon prairie habitats on both sides of the Cascade Mountains. Because this plant was a very important food source for Native Americans, it is of conservation concern both for cultural and botanical reasons. Part of the carrot family (Apiaceae), *P. erythrorhiza* produces tuberous roots that resemble those of carrots (only smaller). Like many cultivated tubers we eat today, those of *Perideridia* could be stored by Native Americans for fall and winter months as an important food staple, when many other plant species were not producing. Unfortunately, many of the prairie habitats occupied by this species have been lost to agricultural and urban development, and this species has declined sharply throughout its range.

For part of my internship, I helped study growth and seed production in *P. erythrorhiza*, and assisted in monitoring new populations that had been established by ODA using seeds and tubers cultivated in the greenhouse. This project was funded by the U.S. Forest



Amber Wierck

Service and the Bureau of Land Management, because these agencies are interested in finding ways to help stabilize this species. So far, it appears that re-introducing this species into suitable habitats may be a successful conservation strategy.

Applegate's milkvetch (*Astragalus applegatei*) is another species that has been seriously restricted due to habitat loss. This legume is known only from a few remaining populations in small remnants of native bunchgrass prairies near Klamath Falls in southern Oregon. In this area, most of the species' habitat has been converted to farms, pastures, or urban development. Those few areas that haven't been developed are colonized by invasive weeds. With funding support by the U.S. Fish and Wildlife Service, ODA is currently involved in several projects to help conserve Applegate's milkvetch.

For my part, I helped gather soil samples throughout the Klamath Basin that will later be used in greenhouse studies designed to investigate the abundance and distribution of obligate soil symbionts (certain mycorrhizal fungi and *Rhizobium* bacteria) needed by this species for growth and survival. This information will help identify areas that may be suitable for re-introduction efforts. In the lab I helped gather data on reproduction (seed set) in this species, and cleaned and sorted seeds that will later be used for long-term storage and cultivation projects.

The next rare species I encountered during my internship was the pumice grape-fern (*Botrychium pumicola*). This small and unique plant grows in clearings amid ponderosa and lodgepole pines in central Oregon. This species exhibits underground connections with other plants via fungal hyphae, and it reproduces by spores and underground gemmae. These mysterious aspects of its biology make it both interesting and complicated to study. I assisted ODA in gathering data on plant survival and growth, as part of multi-year study designed to assess the impacts of shading (forest canopy closure) and various types of logging disturbances on populations. This project is being funded by the U.S. Forest Service and the Bureau

of Land Management, to provide them with information needed to make management decisions that will benefit the species.

Closer to Corvallis, the last species I worked on during my internship was Nelson's checkermallow (*Sidalcea nelsoniana*). Most of the known populations of this species occur in the Willamette Valley, where it is largely restricted to roadside ditches and a few parks and wildlife refuges. Most of its habitat has been lost to agricultural and urban development, and invasive weeds increasingly threaten what habitat remains.

The project I worked on, however, was not focused on loss of habitat, but loss of seeds to predation by weevils. In some populations of Nelson's checkermallow, weevil infestations are so high that very few, if any, seeds survive to help regenerate the species and maintain populations. With funding support by U.S. Fish and Wildlife Service, ODA is conducting research into the use of insecticidal sprays to control weevils and improve seed production. I helped with this project by collecting fruits of sprayed plants from a number of different populations and counting the number of seeds containing weevil larvae. So far it appears that these sprays are very effective at reducing weevil infestations and improving seed set in this rare species.

Each of the species I worked on this summer had its unique set of problems and management needs, which, I realized, can only be determined by research out in their natural habitats and also in the greenhouse. Only when enough information can be obtained by such research can long-term recovery plans be developed and administered.

This summer, I had a great learning experience. I only hope I contributed to the plant conservation projects as much as the projects contributed to my personal knowledge and growth. I would like to thank the wonderful people I worked with: Kelly Amsberry, Matt Carlson, Steven Gisler, Bob Meinke, Kim Roberts and Rhiannon Thomas. Also thanks to the Native Plant Society of Oregon and the Oregon Department of Agriculture for allowing such programs to exist.

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 Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair.

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Highlights of the State Board Meeting, April 14 in The Dalles

by Rhoda Love, Secretary

It was a “gorgeous” weekend in the Columbia Gorge as fifteen board members traveled to the Discovery Center Museum in the Dalles for our quarterly meeting. Spring flowers covered the hillsides near Mosier and Hood River and on the Washington side. Many thanks to Mid-Columbia Chapter for being our gracious hosts. It was a full agenda, so, briefly:

Our overall membership now stands at 794, a decrease from recent numbers. In addition to emphasizing membership recruitment, it is suggested that Chapters contact folks who have dropped and urge them to remain. If you ordered the new Membership Roster, you will receive it in May.

NPSO will be awarding a number of field research grants this year including a study of genetic diversity in *Sisy-*

rinchium sarmentosum, and another on the effects of dwarf mistletoe on old growth *Pinus ponderosa*.

Publications: The latest *Kalmiopsis* will be mailed to members in May. The *Bulletin* is seeking articles on conservation issues. NPSO Occasional Paper Number 2, *Life of L. F. Henderson*, has sold sufficient copies to repay NPSO’s printing costs. Chapters are encouraged to help with sales of both Occasional Papers. Web site manager Michael Hartman requests a 200-word description of each chapter for the NPSO web page. Be sure to visit the very attractive page at www.NPSOregon.org.

The Oregon Department of Agriculture (ODA) Rare Plant Program reports a serious “taking” of R&E *Fritillaria gentneri* in Jacksonville. NPSO is looking into this matter and will be in

touch with ODA botanists with regard to penalties and/or mitigation.

News from the Oregon Flora Project: Dr. Scott Sundberg is training a part-time assistant to be paid from funds raised during the wildly successful matching fund drive last December. Linda Hardison, Chair of the Friends of the Flora, offers a slide-illustrated program on the Flora of Oregon. Contact her at hardisol@bcc.orst.edu to schedule this presentation for your chapter or other interested organization.

The Annual Meeting, celebrating NPSO’s 40th Anniversary, will be in Corvallis June 8, 9, 10 (see page 76 for more info). See you all there! Let’s make it a big turn-out for Corvallis Chapter which has been working hard on a great 40th Anniversary program. Happy Birthday, NPSO!